BH-65

DD DOLBY SYSTEM 8 TRACK HOME STEREO **RECORDING DECK**

SERVICE MANUAL



SPECIFICATIONS

16 diodes, 1 thyristor

Power Source AC 120V 60 Hz

Power Consumption No more than 30W

Cartridge Any 8 track cartridges

Wow and Flutter No more than 0.15% (WRMS)

Fast Forward Time Approx. 2 times Frequency Response 30 \sim 15,000 Hz

Cross Talk More than 45 dB

Signal to Noise Ratio More than 45 dB

Input Level. Mic: 0.5 mV (Typical) Line: 100 mV (Typical)

Input Impedance Line: 100 k Ω Output Level Line; 580 mV

Output Impedance..... Line: 80Ω

RECORDING SECTION

Erasing Ratio..... More than 50 dB

Dimensions (W x H x D). $375 \times 115 \times 275 \text{ mm}$

 $(14-3/4 \times 4-1/2 \times 10-7/8 \text{ in.})$

..... 6.1 kg (13.4 lbs.)

Specifications and the design subject to possible modification without notice due to improvements.



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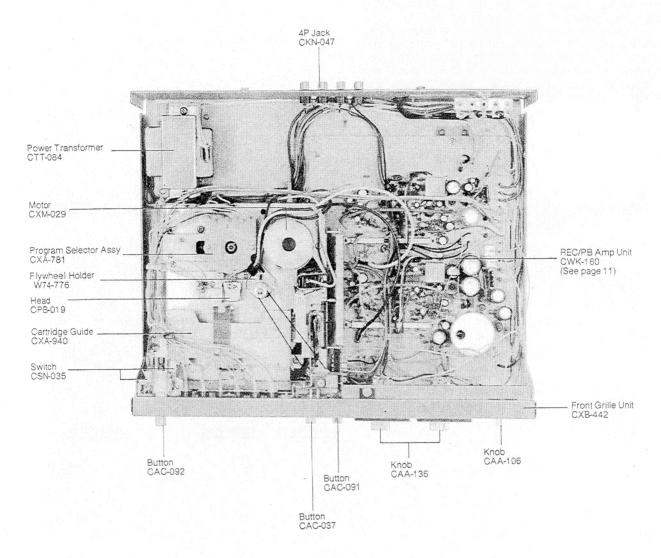


Fig.1

2. CIRCUIT DESCRIPTION

Recording Mode

NPN-NPN two-stage direct-coupled amplifiers (Q1, Q3) function as Microphone Amplifiers on "RECORD". With Microphone jack inserted in MIC, Line In is switched to MIC. Output at Line Out is 580mV with 400Hz at approximately 0.6mV input.

VR1 is the REC Level Control. Line Out terminal can be used as REC Monitor. And even when Dolby switch (S4) is ON, the frequency characteristics are flat.

The output (No. 7 terminal) of Dolby IC is added to REC Amplifiers (Q9, Q11). Meter Amplifier (Q7) activates Level Meter via Voltage Doubler Rectifier Circuits (D1, D3). Q9 and Q11 (two-stage direct-coupled REC Amplifiers) regulate the recording current with a Base Circuit and an Emitter Circuit (L1, C51).

R55, C45 and L1, C51 (Emitter Circuits) are high-frequency compensation circuits; R57 and C47 are low-frequency compensation circuits.

VR3 is a semifixed resistor for adjusting recording current.

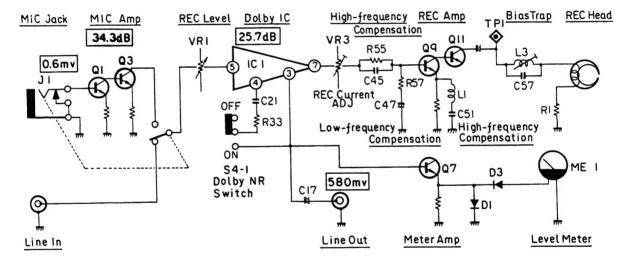


Fig.2

Playback Mode

When playing back, Q1 and Q3 function as NAB equalizer amplifiers. VR1 is a semifixed resistor for adjusting playback level. Q5 is a muting circuit for F.F. The signal added to No. 5 terminal of Dolby IC functions as same as it does when recording.

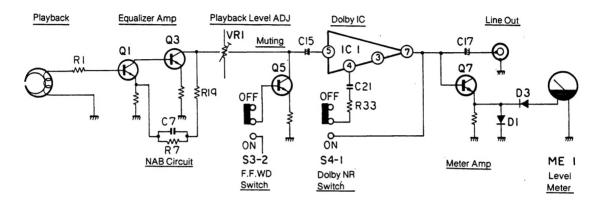
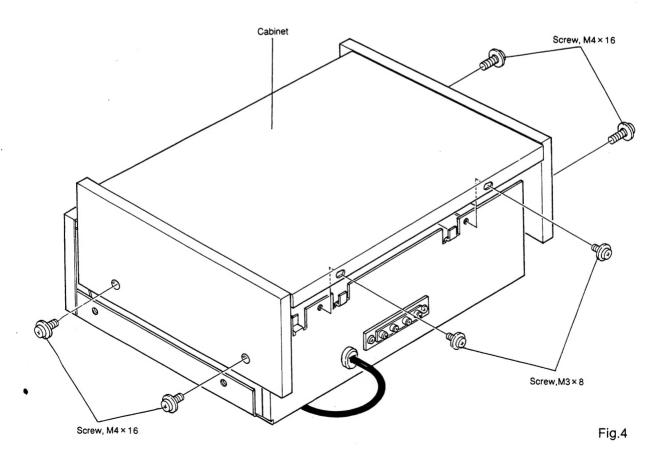


Fig.3

3. DISASSEMBLY



4. ADJUSTMENT

4.1 HEAD ADJUSTMENT

• Connection Diagram

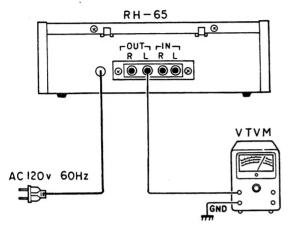


Fig.5

Azimuth Adjustment

1. Insert test tape PST-4.2 and change over program to "3". Adjust by turning azimuth adjusting screw so that the VTVM indicates maximum reading. After completion of adjustment, fasten the adjusting screw by using screwlock adhesive.

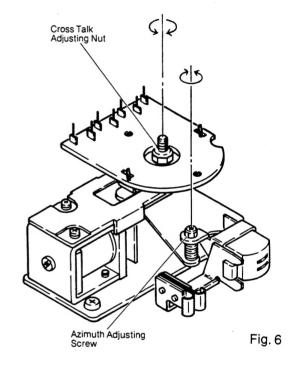
Cross Talk Adjustment

- 1. Insert test tape P-328 and set program to "2" and adjust by turning cross talk adjusting nut so that the VTVM
- indicates minimum reading.

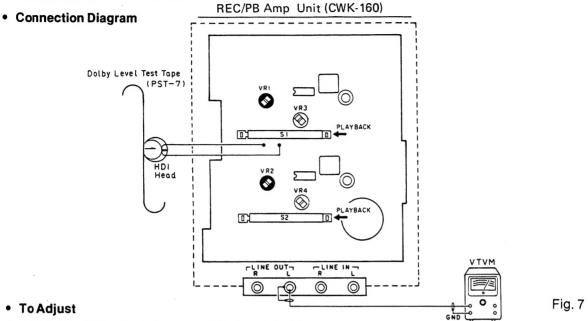
 2. Change over program "3" and confirm that the VTVM indicates maximum reading. If maximum output is not obtained, repeat steps from 1 to 2.

Test Tape

		
Item Test tape	PST-4.2	P-328
Recording track	Full tracks	1, 3, 5, 7
Frequency	8 kHz	400 Hz
Level	– 13 dB	0 dB
Application	Azimuth	Cross talk



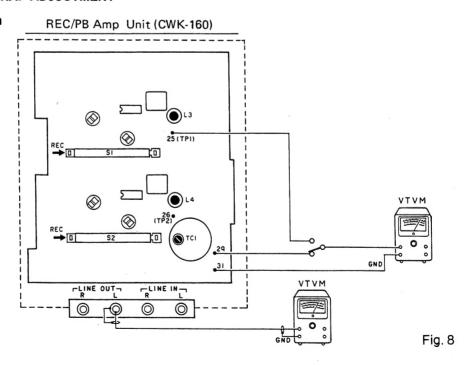
4.2 PLAYBACK LEVEL ADJUSTMENT



1. With Dolby level test tape (PST-7) loaded, adjust the playback level control semifixed resistors (VR1 and VR2) so that output level of Line Out reaches 580mV.

4.3 BIAS AND BIAS TRAP ADJUSTMENT

Connection Diagram



To Adjust

- 1. With the equipment in recording mode, turn Record Level control to the minimum.
- 2. Connect VTVM across terminals 29 and 31(GND), and adjust the bias control ceramic trimmer (TC1) so that output level reaches 90mV.
- 3. Connect VTVM across terminals 25 (TP1), 26 (TP2) and 31(GND) and adjust L3 and L4 so the output level is

minimized.

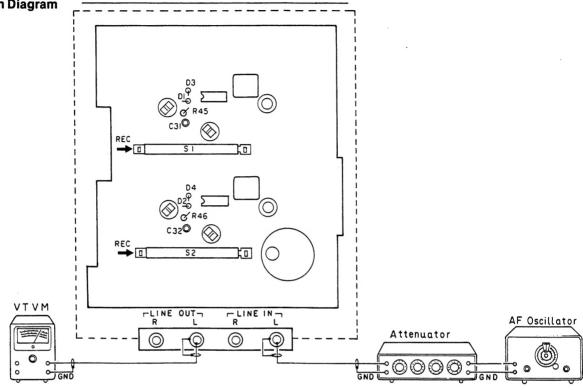
4. Connect VTVM to Line Out. Ascertain that the reading on VTVM is less than - 50dBm.

NOTE:

If not, check to see if Bottom Plate is installed or if Head is properly wired.

4.4 CONFIRM THE INDICATION OF LEVEL METER

REC/PB Amp Unit (CWK-160) • Connection Diagram



To Adjust

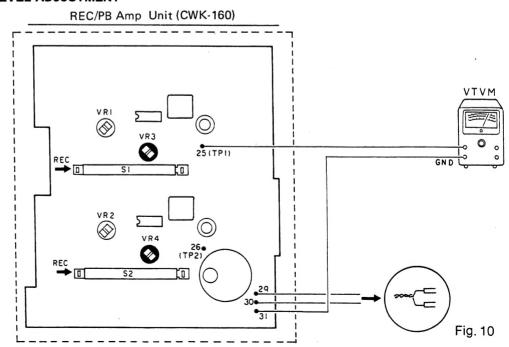
Fig. 9

- Add a 400Hz, -20dBm signal at Line In.
 Adjust Record Level Control so that the pointer of Level Meter will come to +2 point (Dolby mark). Check

to make sure the output level of Line Out stets 580mV ± 1dB. If Level Meter does not indicate + 2 point, check $D1 \sim D4$, C31, C32, R45 and R46 circuits.

4.5 RECORD/PLAYBACK LEVEL ADJUSTMENT

• Connection Diagram



To Adjustment

- 1. Add a 400Hz, 20dBm signal at Line In. With the equipment in recording mode, adjust Record Level control so the output level of Line Out is 580mV/400Hz (show in Fig. 9).
- 2. Make a recording on Scotch #157 (or Scotch highoutput/low-noise) tape under the above condition. Be sure the playback output level of Line Out, when this tape is played back, is 580mV.
- 3. If not 580mV make a note of the error in terms of decibels.
- 4. Remove terminals 29 and 30 to be shorted, and reset the unit at recording mode. Connect VTVM across terminals 25 (TP1), 26 (TP2) and 31 (GND) and note its reading. Adjust to record level control semifixed resistor (VR3 and VR4) to compensate for the above error.
- 5. Repeat the above adjustments until playback output level reaches 580mV.

NOTE:

Be sure to use the test tape specified when making the above adjustments.

4.6 RECORDING CURRENT ADJUSTMENT

• Connection Diagram

OUT

0

REC/PB Amp Unit (CWK-160)

LINE

To Adjust

- 1. Short the terminals 29 and 30 (see step 4, Record/playback Level Adjustment).
- 2. Add a 400Hz, 20dBm signal at Line In, and connect VTVM to either end of terminals 3, 5 and 4, 6. With the equipment in recording mode, adjust Record Level control so output level is at 70dBm.
- 3. It can then be judged that the unit is operating normally if the output level is increased by about 8dB when input is increased to 5kHz, and by about 17 dB when input increased to 10kHz.

Fig. 11

AF Oscillator

If the output level is not proper, check C45, C46, L1, L2, C51 and C52 circuits, or replace Head if it is functioning properly.

Attenuator

NOTE:

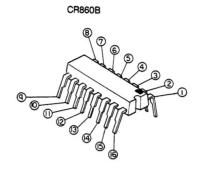
Be sure to make Playback Level Adjustment and Record/playback Level Adjustment.

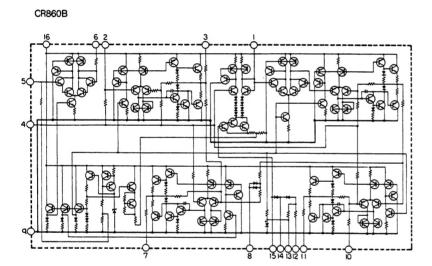
• IC and Transistors











• Parts List

NOTICE: Of the descriptive symbols of the resistor and capacitor, the encircled alphabetic letter denotes the allowable error.

C: ±0.25pF F: ±1pF

G: ±2%

D: ±0.5pF

pF J: ±5%

K: ±10%

M: ±20% Z:

Z: +80_% -20[%]

MISCELLANEOUS

Ref. Key	Parts No.	Description	Ref. Key	Parts No.	Description
IC1	CR860B	ICV.	D11	RD24E-B	Diode
IC2	CR860B	IC	D12	10DS-2 - €	Diode
Q1	2SC644-R, S, T	Transistor	D13	10DS-2	Diode
Q2	2SC644-R, S, T	Transistor	D14	1S1555	Diode
Q3	2SC644-R, S, T	Transistor	D15	1S1555	Diode
Q4	2SC644-R, S, T	Transistor	S1	CSH-023	Switch
Q5	2SC828-Q, R, S	Transistor	S2	CSH-023	Switch
Q6	2SC828-Q, R, S	Transistor	S3	CSG-083	Switch
Q7	2SC828-Q, R, S	Transistor	L1	CTF-061	Coil, 8.2mH 🏏
Q8	2SC828-Q, R, S	Transistor	L2	CTF-061	Coil, 8.2mH
Q9	2SC644-R, S, T	Transistor	L3	CTX-032	Coil
Q10	2SC644-R, S, T	Transistor	L4	CTX-032	Coil
Q11	2SC644-R, S, T	Transistor	L5	CTF-029	Ferri-Inductor, 10mH
Q12	2SC644-R, S, T	Transistor	F1	CWX-226	Filter V
Q13	2SC13 <u>18-Q</u> , R	Transisto Changed	F2	CWX-226	Filter
Q14	2SC1318-Q, R	Transistor Congress 2SD47	T1	CTX-027	Transformer V
Q15	2SC1061-B, C	Transistor	TC1	CCL-024	Ceramic Trimmer, 100pF
Q16	2SC828-Q, R, S	Transistor	VR1	C92-618	Volume, 4.7kΩ (B)
Q17	2SD471	Transistor V	VR2	C92-618	Volume, 4.7kΩ (B)
SCR1	CR02AM-1	Thyristoly Changed 02AM-	VR3	C92-618	Volume, 4.7kΩ (B)
D1	1N60	Diode	VR4	C92-618	Volume, 4.7kΩ (B)
D2	1 N60	Diode			
D3	1 N60	Diode			
D4	1 N60	Diode			
D5	1 N60	Diode			
D6	1 N60	Diode			
D7	1S1886	Diode			
D8	1S1886	Diode			
D9	1S1886	Diode			
D10	1S1555	Diode			

RESISTORS

Ref. Key	Parts No.	Description		
R1	RD1/4VS101J	Resistor	100Ω	1/4W
R2	RD1/4VS101J	Resistor	100Ω	1/4W
R3	RD1/4VS222J	Resistor	2.2kΩ	1/4W
R4	RD1/4VS222J	Resistor	2.2kΩ	1/4W
R5	RD1/4VS224JNL	Resistor	220kΩ	1/4W

Ref. Key	Parts No.	Description	!	
R6	RD1/4VS224JNL	Resistor	220kΩ	1/4W
R7	RD1/4VS334JNL	Resistor	330kΩ	1/4W
R8	RD1/4VS334JNL	Resistor	330kΩ	1/4W
R9	RD1/4VS334JNL	Resistor	330kΩ	1/4W
R10	RD1/4VS334JNL	Resistor	330kΩ	1/4W

Ref. Key	Parts No.	Description	n		Ref. Key	Parts No.	Descriptio	n	
R11	RD1/4VS102J	Resistor	1kQ	1/4W	R56	RD1/4VS823J	Resistor	82kΩ	1/4W
R12	RD1/4VS102J	Resistor	1kΩ	1/4W	R57	RD1/4VS432J	Resistor	4.3kΩ	1/4W
R13	RD1/4VS123J	Resistor	12kΩ	1/4W	R58	RD1/4VS432J	Resistor	4.3kΩ	1/4W
R14	RD1/4VS123J	Resistor	12kΩ	1/4W	R59	RD1/4VS123J	Resistor	12kΩ	1/4W
R15	RD1/4VS681J	Resistor	680Ω	1/4W	R60	RD1/4VS123J	Resistor	12kΩ	1/4W
R16	RD1/4VS681J	Resistor	680Ω	1/4W	R61	RD1/4VS224JNL	Resistor	220kΩ	1/4W
R17	RD1/4VS681J	Resistor	680♀	1/4W	R62	RD1/4VS224JNL	Resistor	220kΩ	1/4W
R18	RD1/4VS681J	Resistor	680Ω	1/4W	R63	RD1/4VS563J	Resistor	56kΩ	1/4W
R19	RD1/4VS303J	Resistor	30kΩ	1/4W	R64	RD1/4VS563J	Resistor	56kΩ	1/4W
R20	RD1/4VS303J	Resistor	30kΩ	1/4W	R65	RD1/4VS222J	Resistor	2.2kΩ	1/4W
R21	RD1/4VS223J	Resistor	22kΩ	1/4W	R66	RD1/4VS222J	Resistor	2.2kΩ	1/4W
R22	RD1/4VS223J	Resistor	22kΩ	1/4W	R67	RD1/4VS101J	Resistor	100Ω	1/4W
R23	RD1/4VS472J	Resistor	4.7kΩ	1/4W	R68	RD1/4VS101J	Resistor	100Ω	1/4W
R24	RD1/4VS472J	Resistor	4.7kΩ	1/4W	R69	RF1/4VS273J	Resistor	27kΩ	1/4W
R25	RD1/4VS332J	Resistor	3.3kΩ	1/4W	R70	RD1/4VS273J	Resistor	27kΩ	1/4W
R26	RD1/4VS332J	Resistor	3.3kΩ	1/4W	R71	RD1/4VS392J	Resistor	3.9kΩ	1/4W
R27	RD1/4VS101J	Resistor	100Ω	1/4W	R72	RD1/4VS392J	Resistor	3.9kΩ	1/4W
R28	RD1/4VS101J	Resistor	100Ω	1/4W	R73	RD1/4VS391J	Resistor	390Ω	1/4W
R29	VACANT				R74	RD1/4VS391J	Resistor	390Ω	1/4W
R30	VACANT				R75	RD1/4VS471J	Resistor	470Ω	1/4W
R31	RD1/4PS102J	Resistor	1kΩ	1/4W	R76	RD1/4VS471J	Resistor	470Ω	1/4W
R32	RD1/4PS102J	Resistor	1kΩ	1/4W	R77	RD1/4VS682J	Resistor	6.8kΩ	1/4W
R33	RD1/4VS181J	Resistor	180Ω	1/4W	R78	RD1/4VS682J	Resistor	6.8kΩ	1/4W
R34	RD1/4VS181J	Resistor	180Ω	1/4W	R79	RD1/4VS223J	Resistor	22kΩ	1/4W
R35	RD1/4VS332J	Resistor	3.3k Q	1/4W	R80	RD1/4VS332J	Resistor	3.3kΩ	1/4W
R36	RD1/4VS332J	Resistor	3.3kΩ	1/4W	R81	RD1/4VS273J	Resistor	27kΩ	1/4W
R37	RD1/4VS103J	Resistor	10kΩ	1/4W	R82	RD1/4VS332J	Resistor	3.3kΩ	1/4W
R38	RD1/4VS103J	Resistor	10kΩ	1/4W	R83	RD1/4VS220J	Resistor	22Ω	1/4W
R39	RD1/4VS473J	Resistor	47kΩ	1/4W	R84	RD1/4VS220J	Resistor	22Ω	1/4W
R40	RD1/4VS473J	Resistor	47kΩ	1/4W	R85	RD1/4VS100J	Resistor	10Ω	1/4W
R41	RD1/4VS104J	Resistor	100kΩ	1/4W	R86	RD1/4VS152J	Resistor	1.5kΩ	1/4W
R42	RD1/4VS104J	Resistor	100kΩ	1/4W	R87	RD1/4VS152J	Resistor	1.5kΩ	1/4W
R43	RD1/4VS181J	Resistor	180Ω	1/4W	R88	RD1/4VS332J	Resistor	3.3kΩ	1/4W
R44	RD1/4VS181J	Resistor	180Ω	1/4W	R89	RD1/4VS822J	Resistor	8.2kΩ	1/4W
R45	RD1/4VS511J	Resistor	510Ω	1/4W	R90	RD1/4VS182J	Resistor	1.8kΩ	1/4W
R46	RD1/4VS511J	Resistor	510Ω	1/4W	R91	RD1/4VS222J	Resistor	2.2kΩ	1/4W
R47	RD1/4VS154J	Resistor	150kΩ	1/4W	R92	RD1/4VS221J	Resistor	220Ω	1/4W
R48	RD1/4VS154J	Resistor	150kΩ	1/4W	R93	RD1/4VS103J	Resistor	10kΩ	1/4W
R49	RD1/4VS684J	Resistor	680kΩ	1/4W	R94	RD1/4VS681J	Resistor	680Ω	1/4W
R50	RD1/4VS684J	Resistor	680kΩ	1/4W	R95	RD1/4VS102J	Resistor	1kΩ	1/4W
R51	RD1/4VS274J	Resistor	270kΩ	1/4W	R96	RS1P560J	Resistor	56Ω	1W
R52	RD1/4VS274J	Resistor	270kΩ	1/4W	R97	RS1P390J	Resistor	39Ω	1W
R53	RD1/4VS561J	Resistor	560Ω	1/4W	R98	RS1P560J	Resistor	56Ω	1W
R54	RD1/4VS561J	Resistor	560♀	1/4W	R99	RS1P560J	Resistor	56Ω	1W
R55	RD1/4VS823J	Resistor	82k Ω	1/4W	R100	RS1P101K	Resistor	100Ω	1W

Ref. Key	Parts No.	Description	on	
R101	RS3P271J	Resistor	270Ω	3W
R102	RS3P271J	Resistor	270Ω	3W
R103	RS2P221J	Resistor	220Ω	2W
R104	RS3P271J	Resistor	270Ω	3W
R105	RD1/4VS561J	Resistor	560Ω	1/4W

Ref. Key	Parts No.	Description	on	
R106	RD1/4VS561J	Resistor	560Ω	1/4W

CAPACITORS

Ref. Key	Parts No.	Descriptio	n		Ref. Key	Parts No.	Descriptio	n	
C1	CCDSL121J50	Capacitor	120pF	50V	C36	CEA100P16	Capacitor	10µF	16V
C2	CCDSL121J50	Capacitor	120pF	50V	C37	CEA010P50	Capacitor	1μF	50V
C3	CEA3R3P50	Capacitor	3.3µF	50V	C38	CEA010P50	Capacitor	1μF	50\
C4	CEA3R3P50	Capacitor	$3.3\mu F$	50V	C39	CQMA104J50	Capacitor	0.1µF	50\
C5	CCDSL330K50	Capacitor	33pF	50V	C40	CQMA104J50	Capacitor	0.1µF	50\
C6	CCDSL330K50	Capacitor	33pF	50V	C41	CSZAR33M35	Capacitor	0.33µF	35\
C7	CQMA332J50	Capacitor	3300pF	50V	C42	CSZAR33M35	Capacitor	0.33µF	35\
C8	CQMA332J50	Capacitor	3300pF	50V	C43	CEA471P16	Capacitor	470µF	16\
C9	CEA4R7P35	Capacitor	4.7μ F	35V	C44	CEA471P16	Capacitor	470µF	16\
C10	CEA4R7P35	Capacitor	4.7μF	35V	C45	CQMA152J50	Capacitor	1500pF	
C11	CEA2R2P50	Capacitor	2.2µF	50V	C46	CQMA152J50	Capacitor	1500pF	50\
012	CEA2R2P50	Capacitor	$2.2\mu F$	50V	C47	CSZAR33M35	Capacitor	0.33µF	35
C13	CEA101P35	Capacitor	100µF	35V	C48	CSZAR33M35	Capacitor	0.33µF	35
C14	CEA101P35	Capacitor	100µF	35V	C49	CEA2R2P50	Capacitor	2.2µF	50
C15	CSZAR33M35	Capacitor	0.33µF	35V	C50	CEA2R2P50	Capacitor	2.2µF	50
C16	CSZAR33M35	Capacitor	0.33µF	35V	C51	CQMA123J50	Capacitor	0.012µF	50
C17	CEA100P16	Capacitor	10μF	16V	C52	CQMA123J50	Capacitor	0.012µF	50
C18	CEA100P16	Capacitor	10μF	16V	C53	CEA470P10	Capacitor	47μF	10
C19	CEA100P16	Capacitor	10μF	16V	C54	CEA470P10	Capacitor	47μF	10
C20	CEA100P16	Capacitor	10μF	16V	C55	CEA100P35	Capacitor	10μF	35
C21	CQMA562J50	Capacitor	5600pF	50V	C56	CEA100P35	Capacitor	10µF	35
C22	CQMA562J50	Capacitor	5600pF	50V	C57	CKDYB221J50	Capacitor	220pF	50
023	CEA100P16	Capacitor	10μF	16V	C58	CKDYB221J50	Capacitor	220pF	50
C24	CEA100P16	Capacitor	10µF	16V	C59	CEA100P35	Capacitor	10μF	35
C25	CQMA472J50	Capacitor	4700pF	50V	C60	CEA100P35	Capacitor	10μF	35
226	CQMA472J50	Capacitor	4700pF	50V	C.61	CEA220P10	Capacitor	22µF	10
C27	CQMA273J50	Capacitor	0.027µF	50V	C62	CEA221P25	Capacitor	220µF	25
C28	CQMA273J50	Capacitor	0.027µF	50V	C63	CQMA332J50	Capacitor	3300pF	50
C29	CEA100P16	Capacitor	10μF	16V	C64	CQMA332J50	Capacitor	3300pF	50
C30	CEA100P16	Capacitor	10μF	16V	C65	CQMA103J50	Capacitor	0.01µF	50
C31	CEA3R3P50	Capacitor	3.3µF	50V	C66	CQMA104J50	Capacitor	0.1µF	50
C32	CEA3R3P50	Capacitor	3.3µF	50V	C67	CQMA473M50	Capacitor	0.047µF	50
C33	CQMA473J50	Capacitor	$0.047 \mu F$		C68	CEA101P50	Capacitor	100μF	50
C34	CQMA473J50	Capacitor	0.047µF		C69	CEA100P50	Capacitor	10μF	50
C35	CEA100P16	Capacitor	10μF	16V	C70	CQMA473M50	Capacitor	0.047µF	

Ref. Key	Parts No.	Descriptio	n	
C71	CEA331P50	Capacitor	330µF	50V
C72	CEA102P50	Capacitor	1000µF	50V
C73	CEA102P50	Capacitor	1000µF	50V
C74	CEA470P16	Capacitor	47µF	16V
C75	CEA100P16	Capacitor	10µF	16V

Ref. Key	Parts No.	Description	n	
C76	CEA102P25	Capacitor	1000µF	25V
C77	CKDYB181J50	Capacitor	180pF	50V
C78	CKDYB181J50	Capacitor	180pF	50V
C79	CEA220P10	Capacitor	22µF	10V

7. MISCELLANEOUS PARTS LIST

Ref. Key	Parts No.	Description	Ref. Key	Parts No.	Description
01	SIB01-01 or	Diode	T1	CTT-084	Power Transforme
	SIB01-02 or	Diode	M	CXM-029	Motor
	FR2-02	Diode	L1	CTF-003	Coil, 15µH
C1	CKDYF102Z25	Capacitor 0.001µF 25V	HD1	CPB-019	Head
C2	CKDYF102Z25	Capacitor 0.001µF 25 V	VR1	CCS-140	Volume, 100kΩ (A)
С3	CEA2R2P50	Capacitor 2.2µF ► 50V	VR2	CCS-140	Volume, 100kΩ (A)
SO	QXP-009	Solenoid Changed	S1	S21-625	Switch
J1	CKN-014	Jack CKP-C	23 _{S2}	CSN-035	Switch
J2	CKN-014	Jack	S3	CSN-035	Switch
J3	CKN-047	4P Jack	S4	CSG-048	Switch
ME1	CAW-038	Meter V	S5	CSG-040	Switch
ME2	CAW-038	Meter	S6	CSK-006	Switch
IL1	CEL-020	Lamp, 14V 60mA			
IL2	CEL-020	Lamp, 14V 60mA			
IL3	CEL-020	Lamp, 14V 60mA			
IL4	CEL-020	Lamp, 14V 60mA V			
IL5	CEL-053	Lamp, 14V 60mA			
IL6	CEL-053	Lamp, 14V 60mA			
IL7	CEL-020	Lamp, 14V 60mA			
IL8	CEL-020	Lamp, 14V 60mA			

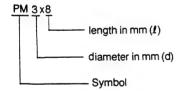
8. NOMENCLATURE OF SCREWS, WASHERS AND NUTS

The following symbols stand for screws, washers and nuts as shown in exploded view.

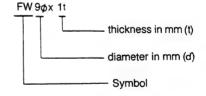
The follow	ring symbols stand for screws, washer	s and nuts as shown in
Symbol	Description	Shape
RT	Brazier head tapping screw	
PT	Pan head tapping screw	
вт	Binding head tapping screw	
СТ	Countersunk head tapping screw	
тт	Truss head tapping screw	
ост	Oval countersunk head tapping screw	
РМ	Pan head machine screw	
СМ	Countersunk head machine screw	
ОСМ	Oval countersunk head machine screw	
ТМ	Truss head machine screw	
ВМ	Binding head machine screw	(
PSA	Pan head screw with spring lock washer	(
PSB	Pan head screw with spring lock washer and flat washer	
PSF	Pan head screw with flat washer	4

Symbol	Description	Sha	ape
EW	E type washer	W	
FW	Flat washer	0	
sw	Spring lock washer	0	4
N	Nut	0	8
WN	Washer faced nut	0	
ITW	Internal toothed lock washer	0	1
отw	Outernal toothed lock washer	£0,5	1
sc	Slotted set screw (Cone point)	⊖	Ü
SF	Slotted set screw (Flat point)	€	
HS	Hexagon socket headless set screw	0	
ocw	Oval countersunk head wood screw		
cw	Countersunk head wood screw		
RW	Round head wood screw		

EXAMPLE









11. PACKING METHOD (RH-65KU)

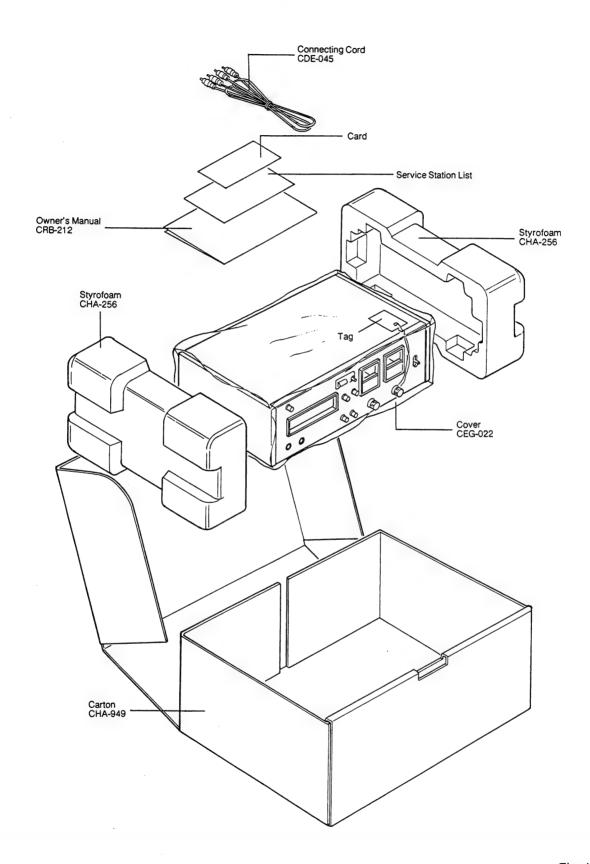


Fig. 16

12. PACKING METHOD (RH-65KC)

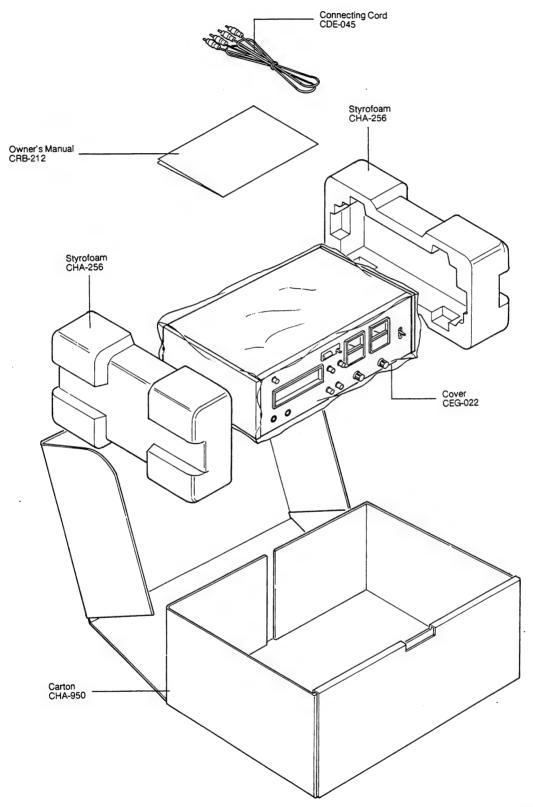


Fig. 17



DOLBY SYSTEM 8 TRACK HOME STEREO RECORDING DECK

SERVICE MANUAL



SPECIFICATIONS

Semi-Conductors 2 IC's, 17 transistors,

16 diodes, 1 thyristor

Power Source AC 120/220/240V 50/60 Hz

Power Consumption...... No more than 30W

Cartridge Any 8 track cartridges

Wow and Flutter No more than 0.15% (WRMS)

Fast Forward Time Approx. 2 times

Frequency Response $\dots 30 \sim 15{,}000 \, \text{Hz}$ Cross Talk $\dots \text{More than } 45 \, \text{dB}$

Signal to Noise Ratio More than 45 dB Input Level Mic: 0.5 mV (Typical)

Line: 100 mV (Typical)

Input Impedance Line: 100 k Ω Output Level Line: 580 mV

Output Impedance Line: 80Ω

RECORDING SECTION

Erasing Ratio More than 50 dB

Dimensions (W x H x D) 375 x 115 x 275 mm

 $(14-3/4 \times 4-1/2 \times 10-7/8 \text{ in.})$

Note

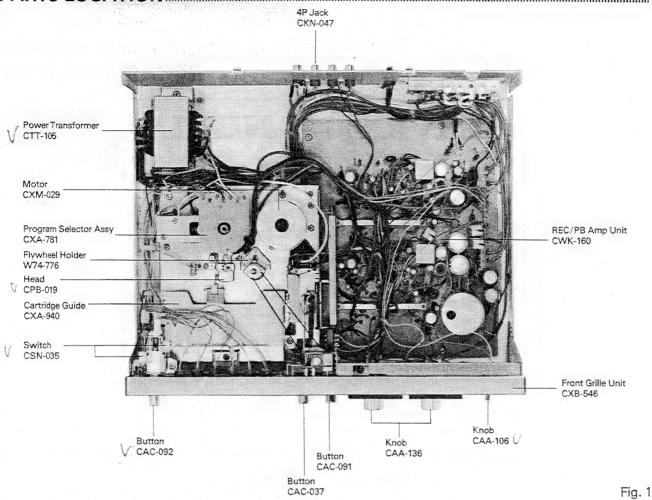
Specifications and the design subject to possible modification without notice due to improvements.



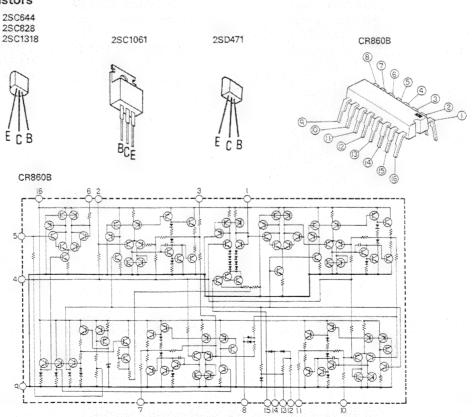
[&]quot;Manufactured under license from Dolby Laboratories Inc."

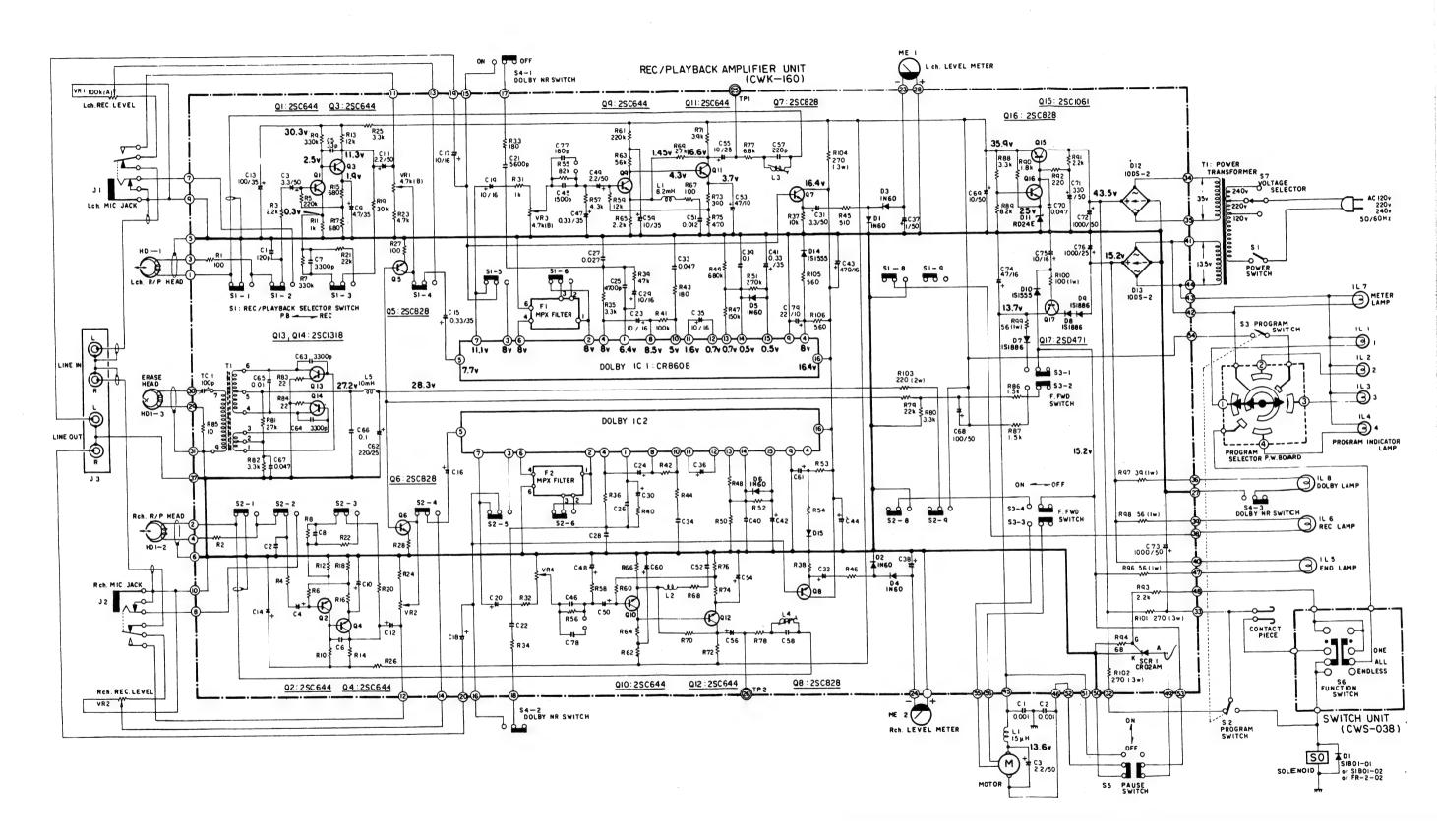
[&]quot;The word 'Dolby' and Dare trade marks of Dolby Laboratories Inc."

PARTS LOCATION:



. IC's and Transistors





This list shows the difference of parts for RH-65 $^{KU}_{KC}$ and RH-65D. Page numbers in the list refer to RH-65 $^{KU}_{KC}$ Service Manual.

Parts List

NOTICE: Of the descriptive symbols of the resistor and capacitor, the encircled alphabetic letter

denotes the allowable error.

Example: RD1/4VS100 J

C:±0.25pF

F:±1pF

J:±5%

M:±20%

Z: +80%

RESISTORS

CEA100 P 25

D:±0.5pF

G:±2%

K:±10% X: +40

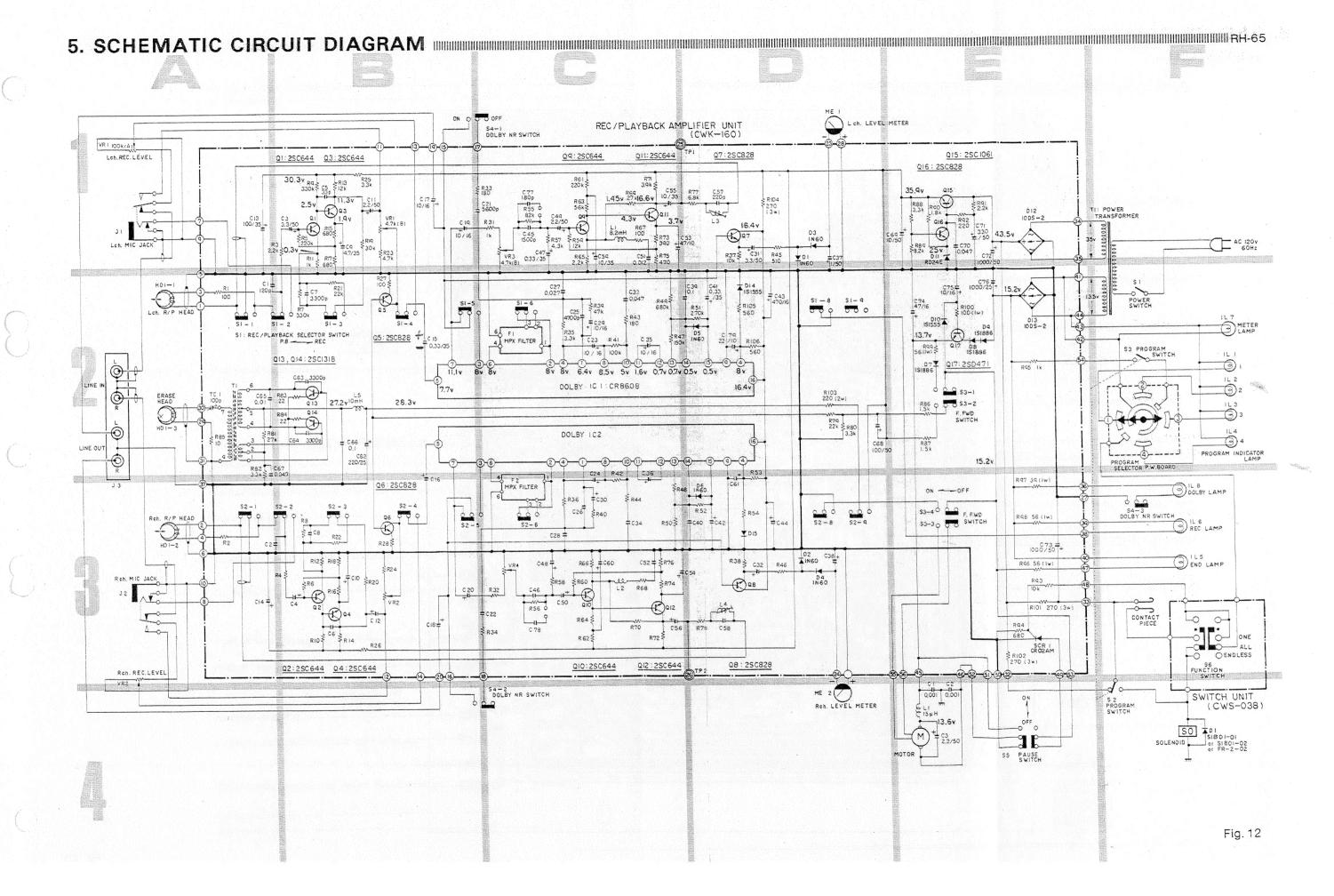
 $P: + \frac{100}{10}\%$

RH-65 KU			RH-65 D	
	(CWK-160)		(CWK-160)	
Ref. Key	Parts No.	Description	Parts No.	Description
R93	RD1/4VS103J	Resistor 10kΩ 1/4W	RD1/4VS222J	Resistor 2.2kΩ 1/4W
R94	RD1/4VS681J	Resistor 680Ω 1/4W	RD1/4VS680J	Resistor 68Ω 1/4W

CAPACITORS

RH-65 KU			RH-65 D	
(CWK-160)			(CWK-160)	
Ref. Key	Parts No.	Description	Parts No.	Description
C57	CKDYB221J50	Capacitor 220pF 50V	CKDYB221K50	Capacitor 220pF 50V
C58	CKDYB221J50	Capacitor 220pF 50V	CKDYB221K50	Capacitor 220pF 50V

RH-65 KU			RH-65 D			
Page	Parts No.	Description	Parts No.	Description		
17	CTT-084	Power Transformer	CTT-105	Power Transformer		
19	CXB-442	Front Grille Unit	CXB-546	Front Grille Unit ♥		
20	CTT-084	Power Transformer	CTT-105	Power Transformer >		
20			CKA-003	Voltage Selector V	Add	
20			CND-180	Switch Holder 🛪	Add	
23	CRB-212	Owner's Manual	CRB-242	Owner's Manual		
23	CHA-949	Carton	CHB-059	Carton		



6. REC/PB AMP UNIT (CWK-160)

Parts Connection

